Putlog

stat

	CRF Errors Corrected by STIC Systems Branch CRF Processing Date: 11/6/12
Sorb	I Number: U.1/001, 236 Edilod by:
۔ لـــا	
	Changed the margins in cases where the sequence toxi was wrapped down to the next line.
	Edited a lormat error in the Current Application Data section, specifically:
	Edited the Current Application Data section with the actual current number. The number inputted by the applicant was The prior application data; or other
	Added the mandatory heading and subheadings for "Current Application Data".
	Edited the 'Number of Sequences' field. The applicant spelled out a number instead of using an integer
	Changed the spelling of a mandatory field (the headings or subheadings), specifically:
	Corrected the SEO ID NO when obviously incorrect. The sequence numbers that were edited were:
	Inserted or corrected a nucleic number at the end of a nucleic line. SEO ID NO's edited:
	Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
	Inserted colons after headings/subheadings. Headings edited included: •, . * *
	Deleted extra, invalid, headings-used by an applicant, specifically:
3	Deleted: ☐ non-ASCII garbage at the beginning/end of tiles: ☐ secretary initials/filename at end of to page numbers throughout text; ☐ other invalid text, such as
	Inserted mandatory headings, specifically:
	Corrected an obvious error in the response, specifically:
	Edited identifiers where upper case is used but lower case is required, or vice versa.
	Corrected an error in the Number of Sequences field, specifically:
	A "Hard Pago Break" code was inserted by the applicant. All occurrences had to be deleted.
	Deloted ending stop codon in amino acid sequences and adjusted the *(A)Length:* field accordingly (error due to a Patentin bug). Sequences corrected:
]	Other:
-	•
F 6.	
caminer	The above corrections must be communicated to the applicant in the first Office

Examiner: The above corrections must be communicated to the applicant in the first Office Aciden. DO NOT send a copy of this form.

DATE: 11/06/2001

PATENT APPLICATION: US/09/807,236 TIME: 07:54:23 Input Set : A:\PTO.AMC.txt Output Set: N:\CRF3\11062001\1807236.raw 3 <110> APPLICANT: E. I. du Pont de Nemours and Company 5 <120> TITLE OF INVENTION: Plant Histidine Biosynthetic Enzymes 7 <130> FILE REFERENCE: BB1255 C--> 9 <140> CURRENT APPLICATION NUMBER: US/09/807,236 C--> 10 <141> CURRENT FILING DATE: 2001-07-23 12 <150> PRIOR APPLICATION NUMBER: 60/105,409 13 <151> PRIOR FILING DATE: 1998-10-23 15 <160> NUMBER OF SEQ ID NOS: 22 17 <170> SOFTWARE: Microsoft Office 97 19 <210> SEQ ID NO: 1 20 <211> LENGTH: 433 21 <212> TYPE: DNA 22 <213> ORGANISM: Zea mays 24 <220> FEATURE: 25 <221> NAME/KEY: unsure 26 <222> LOCATION: (432) 28 <400> SEQUENCE: 1 29 gccgcctcct cccagccacc gcgctgccgc tgtccagcgc tcctcggcca gctccccagc 60 30 gegeagteec ageegeegae cagegeedee egegeagtee tageegeege geageegeeg 120 31 accagegeat eteeggeeag efecetggeg tgeageteet ceaetageeg ceaageacea 180 32 ggaccacgcc atggccgtct gtctcccaaa gtatgtgttt agcgatggca agatgaacat 240 33 tgaaaggctg acaaaacttg tcgagctggt tgggaaacag aggcttgtgc tggaccttaa 300 34 gctgtcgaaa aaaggatggc aagatatact attgtaactg acaggtggca aaagttcagt 360 35 gatgtgtttg tggatgaacc ggcattagaa tatctcgctg cctttcgcag attagttttt 420 > 36 tggttcatgg gng 38 <210> SEQ ID NO: 2 39 <211> LENGTH: 74 40 <212> TYPE: PRT 41 <213> ORGANISM: Zea mays 43 <400> SEQUENCE: 2 44 Gln Asp His Ala Met Ala Val Cys Leu Pro Lys Tyr Val Phe Ser Asp 45 47 Gly Lys Met Asn Ile Glu Arg Leu Thr Lys Leu Val Glu Leu Val Gly 48 20 25 50 Lys Gln Arg Leu Val Leu Asp Leu Lys Leu Ser Lys Lys Ala Arg Tyr 53 Thr Ile Val Thr Asp Arg Trp Gln Lys Phe Ser Asp Val Phe Val Asp 54 56 Glu Pro Ala Leu Glu Tyr Leu Ala Ala Phe 57 65 59 <210> SEQ ID NO: 3 60 <211> LENGTH: 490 61 <212> TYPE: DNA 62 <213> ORGANISM: Zea mays 64 <220> FEATURE: 65 <221> NAME/KEY: unsure 66 <222> LOCATION: (261)

RAW SEQUENCE LISTING

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\11062001\1807236.raw

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68 <220> FEATURE:
     69 <221> NAME/KEY: unsure
     70 <222> LOCATION: (311)
     72 <220> FEATURE:
     73 <221> NAME/KEY: unsure
     74 <222> LOCATION: (413)
     76 <220> FEATURE:
     77 <221> NAME/KEY: unsure
     78 <222> LOCATION: (418)
     80 <220> FEATURE:
     81 <221> NAME/KEY: unsure
     82 <222> LOCATION: (439)
     84 <220> FEATURE:
     85 <221> NAME/KEY: unsure
     86 <222> LOCATION: (442)
     88 <220> FEATURE:
     89 <221> NAME/KEY: unsure
     90 <222> LOCATION: (488)
     92 <400> SEQUENCE: 3
     93 gctagtatgt gaattgcagg ttaggaattg atgaggaact tgtggaacta ttggggcact 60
     94 attcaccaat cccagtcact tatgctgggg gtgtgtcaac aatggacgac ctagagagga 120
     95 taaagaaagc aggcaaaagt cgggtagatg taacaattgg gagtgctcta gatatatttg 180
     96 gaggagattt gccttacaaa gatgttgtcc tttggcacag gaagcaaagt atggttggtc 240
W--> 97 aagtgtgaag aaacacaagg nattgatcag tattaccagt tcatttgatt caagcttctg 300
W--> 98 cacaaagtat nttttctgaa catttttgtt caaataattc aagttaggct atctccaaca 360
W--> 99 agatectect ateteatece cetattteaa acetattttg cgtcccetat ttntacanet 420
W--> 100 acactgggag acagtectne antgatggtt ateteaaate tgggggagea atgacettge 480
W--> 101 tttggggntt
                                                                            490
    103 <210> SEQ ID NO: 4
     104 <211> LENGTH: 76
     105 <212> TYPE: PRT
    106 <213> ORGANISM: Zea mays
    108 <400> SEQUENCE: 4
    109 Arg Leu Gly Ile Asp Glu Glu Leu Val Glu Leu Leu Gly His Tyr Ser
    110
                                              .10
    112 Pro Ile Pro Val Thr Tyr Ala Gly Gly Val Ser Thr Met Asp Asp Leu
                      20
    115 Glu Arg Ile Lys Lys Ala Gly Lys Ser Arg Val Asp Val Thr Ile Gly
                  35
    118 Ser Ala Leu Asp Ile Phe Gly Gly Asp Leu Pro Tyr Lys Asp Val Val
                                  55
    121 Leu Trp His Arg Lys Gln Ser Met Val Gly Gln Val
    122 65
                              70
    124 <210> SEQ ID NO: 5
    125 <211> LENGTH: 466
    126 <212> TYPE: DNA
    127 <213> ORGANISM: Zea mays
    129 <400> SEQUENCE: 5
    130 gggttegeeg tegeggegeg getacetege teeggeteee agetegteeg gteeagetea 60
```

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\11062001\1807236.raw

```
131 ctcgcggtcg cgaccatctc cgtccacctc atccctccgg caagcagttg ctaaactcat 120
132 ccagggtcag atcagcagct cttgccttat cccqctgqct gqccqcaqca ccqqtqqtqt 180
133 ggtggaggat ggcatcgaaa tacgtggcca gggtaccgtc tccatggtgg gcgccacaac 240
134 gtcgtttggt tggttcatgg gtttccgtct gctcggtaaa atgcggtgca ttgggaggac 300
135 ggatgttgtg tgcgctgctg ttagcttcag accatgcatc gacattcaca aggggaaagt 360
136 taagcagatt gttggttcta ctcttcggga ttcatccaat gatggcatgg aacttgtgac 420
137 aaactttgaa tcagacaaat ctcctgcaga atttgcaaaa tcatat
139 <210> SEQ ID NO: 6
140 <211> LENGTH: 81
141 <212> TYPE: PRT
142 <213> ORGANISM: Zea mays
144 <400> SEQUENCE: 6
145 Met Val Gly Ala Thr Thr Ser Phe Gly Trp Phe Met Gly Phe Arg Leu
                                          10
148 Leu Gly Lys Met Arg Cys Ile Gly Arg Thr Asp Val Val Cys Ala Ala
                 20
151 Val Ser Phe Arg Pro Cys Ile Asp Ile His Lys Gly Lys Val Lys Gln
152
             35
                                  40
154 Ile Val Gly Ser Thr Leu Arg Asp Ser Ser Asn Asp Gly Met Glu Leu
                              55
157 Val Thr Asn Phe Glu Ser Asp Lys Ser Pro Ala Glu Phe Ala Lys Ser
158 65
                         70
                                              75
160 Tyr
163 <210> SEQ ID NO: 7
164 <211> LENGTH: 566
165 <212> TYPE: DNA
166 <213> ORGANISM: Zea mays
168 <220> FEATURE:
169 <221> NAME/KEY: unsure
170 <222> LOCATION: (326)
172 <220> FEATURE:
173 <221> NAME/KEY: unsure
174 <222> LOCATION: (340)
176 <220> FEATURE:
177 <221> NAME/KEY: unsure
178 <222> LOCATION: (383)
180 <220> FEATURE:
181 <221> NAME/KEY: unsure
182 <222> LOCATION: (398)
184 <220> FEATURE:
185 <221> NAME/KEY: unsure
186 <222> LOCATION: (418)
188 <220> FEATURE:
189 <221> NAME/KEY: unsure
190 <222> LOCATION: (437)
192 <220> FEATURE:
193 <221> NAME/KEY: unsure
194 <222> LOCATION: (443)..(444)
196 <220> FEATURE:
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Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\11062001\1807236.raw

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197 <221> NAME/KEY: unsure
     198 <222> LOCATION: (485)
     200 <220> FEATURE:
     201 <221> NAME/KEY: unsure
     202 <222> LOCATION: (488)
     204 <220> FEATURE:
     205 <221> NAME/KEY: unsure
     206 <222> LOCATION: (516)
     208 <220> FEATURE:
     209 <221> NAME/KEY: unsure
     210 <222> LOCATION: (522)
     212 <220> FEATURE:
     213 <221> NAME/KEY: unsure
     214 <222> LOCATION: (539)
     216 <220> FEATURE:
     217 <221> NAME/KEY: unsure
     218 <222> LOCATION: (551)
     220 <400> SEQUENCE: 7
     221 cgtgctggac ctcagttgtc gaaaaaagga tggccgatat accattgtaa ctgacaggtg 60
     222 gcaaaagttc agtgatgtgt ttgtggatga accaacatta gaatatctcg ctgcctttgc 120
     223 agatgagttt ttggttcatg gtgttgatgt ggagggcaaa aggttaggaa ttgatgagga 180
     224 acttgtggaa ctattggggc actattcacc aatcccagtc acttatgctg ggggtgtgtc 240
     225 aacaatggac gacctagaga ggataaagaa agcaggcaaa agtcgggtag atgtaacaat 300
W--> 226 tgggagtgct ctagatataa ttggangaga ttgccttacn aagatgttgt ccttggcacc 360
W--> 227 agggagccaa gtaatggttg ggncaagtgt gaagaachcc agggaattaa tccagtanta 420
W--> 228 cccagttcca titgatnaaa ccnnctggac caaaagataa tttccccgaa ccaatttttg 480
W--> 229 gtccnaanaa atccaggtaa ggggaatttc ccaaanaaag ancccettaa ccccaaccne 540
                                                                            566
W--> 230 cccaatttcc naaaaccaaa attttc
     232 <210> SEQ-ID-NO: 8
     233 <211> LENGTH: 108
     234 <212> TYPE: PRT
     235 <213> ORGANISM: Zea mays
     237 <400> SEQUENCE: 8
     238 Val Leu Asp Leu Ser Cys Arg Lys Lys Asp Gly Arg Tyr Thr Ile Val
     241 Thr Asp Arg Trp Gln Lys Phe Ser Asp Val Phe Val Asp Glu Pro Thr
     242
                      20
     244 Leu Glu Tyr Leu Ala Ala Phe Ala Asp Glu Phe Leu Val His Gly Val
                  35
     247 Asp Val Glu Gly Lys Arg Leu Gly Ile Asp Glu Glu Leu Val Glu Leu
                                  55
     250 Leu Gly His Tyr Ser Pro Ile Pro Val Thr Tyr Ala Gly Gly Val Ser
                                                   75
     253 Thr Met Asp Asp Leu Glu Arg Ile Lys Lys Ala Gly Lys Ser Arg Val
     256 Asp Val Thr Ile Gly Ser Ala Leu Asp Ile Ile Gly
     257
                     100
     259 <210> SEQ ID NO: 9
     260 <211> LENGTH: 397
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Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\11062001\1807236.raw

```
261 <212> TYPE: DNA
262 <213> ORGANISM: Zea mays
264 <400> SEQUENCE: 9
265 cacaagggga aagttaagca gattgttggt tctactcttc gggattcatc caatgatggc 60
266 atggaacttg tgacaaactt tgaatcagac aaatctcctg cagaatttgc aaaatcatat 120
267 aaagaagatg aacttettgg aggacatgtt ataatgettg geteagatee tgeaageeag 180
268 gctgctgcac tcgaggcact acatgcatat cctggtggct tgcaagttgg aggtggaata 240
269 aatttgcaga atgcaatgtc ttaccttaat gaaggggcca gtcatgtgat agtgacctct 300
270 tatgtgttta gcgatggcaa gatgaacatt gaaaggctga caaaacttgt cgagctggtt 360
271 gggaaacaga gcttgtgctg gaccttagct gtcgaaa
273 <210> SEQ ID NO: 10
274 <211> LENGTH: 130
275 <212> TYPE: PRT
276 <213> ORGANISM: Zea mays
278 <400> SEQUENCE: 10
279 His Lys Gly Lys Val Lys Gln Ile Val Gly Ser Thr Leu Arg Asp Ser
282 Ser Asn Asp Gly Met Glu Leu Val Thr Asn Phe Glu Ser Asp Lys Ser
                 20
                                      25
285 Pro Ala Glu Phe Ala Lys Ser Tyr Lys Glu Asp Glu Leu Leu Gly Gly
288 His Val Ile Met Leu Gly Ser Asp Pro Ala Ser Gln Ala Ala Ala Leu
289
         50
291 Glu Ala Leu His Ala Tyr Pro Gly Gly Leu Gln Val Gly Gly Gly Ile
292 65
                         70
294 Asn Leu Gln Asn Ala Met Ser Tyr Leu Asn Glu Gly Ala Ser His Val
297 Ile Val Thr Ser Tyr Val Phe Ser Asp Gly Lys Met Asn Ile Glu Arq
                100
                                     105
300 Leu Thr Lys Leu Val Glu Leu Val Gly Lys Gln Ser Leu Cys Trp Thr
301
                                120
303 Leu Ala
304
        130
306 <210> SEQ ID NO: 11
307 <211> LENGTH: 423
308 <212> TYPE: DNA
309 <213> ORGANISM: Zea mays
311 <220> FEATURE:
312 <221> NAME/KEY: unsure
313 <222> LOCATION: (1)
315 <220> FEATURE:
316 <221> NAME/KEY: unsure
317 <222> LOCATION: (4)
319 <220> FEATURE:
320 <221> NAME/KEY: unsure
321 <222> LOCATION: (28)
323 <220> FEATURE:
324 <221> NAME/KEY: unsure
325 <222> LOCATION: (75)
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FYI

Use of n and/or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/807,236
DATE: 11/06/2001
TIME: 07:54:24

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\11062001\1807236.raw

L:9 M:270 C: Current Application Number differs, Replaced Application Number L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:36 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:1 L:36 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 L:97 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:3 L:97 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 L:98 M:258 W: Mandatory Feature missing, <223> not found for SEO ID#:3 L:98 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 L:99 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:3 L:99 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 L:100 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:3 L:100 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 L:101 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:3 L:101 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 L:226 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:7 L:226 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 L:227 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:7 L:227 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 L:228 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:7 L:228 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 L:229 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:7 L:229 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 L:230~M:258~W: Mandatory Feature missing, <223> not found for SEQ ID#:7 $\rm L\!:\!230~M\!:\!341~W\!:$ (46) "n" or "Xaa" used, for SEQ ID#:7 L:352 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:11 L:352 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 L:353 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:11 L:353 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 L:356 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:11 $\rm L\!:\!356~M\!:\!341~W\!:$ (46) "n" or "Xaa" used, for SEQ ID#:11 L:358 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:11 L:358 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 L:391 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:12 $L\!:\!391~M\!:\!341~W\!:$ (46) "n" or "Xaa" used, for SEQ ID#:12 L:394 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:12 L:394 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 L:409 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:12 L:409 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 L:412 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:12 L:412 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 L:415 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:12 L:415 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 L:451 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:13 L:451 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 L:452 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:13 L:452 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 L:511 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:14 L:511 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/807,236

DATE: 11/06/2001 TIME: 07:54:24

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\11062001\1807236.raw

L:514 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:14
L:514 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:585 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:17
L:585 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:586 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:17
L:586 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:612 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:18
L:612 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:615 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:18
L:615 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:624 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:18
L:624 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:625 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:682 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:20
L:682 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20